

INDIRA UNIVERSITY, PUNE

SCHOOL OF INFORMATION TECHNOLOGY-BSC AIML

Term End Examination (2025 Pattern) April- May – 2026- Semester – II

Course Name: Fundamentals of Machine Learning
Course Code: 25AML204T

Max. Marks: 25
Time: 1:30 Hrs.

Instructions

- All questions are compulsory.
- Figures to the right indicate full marks.

Q1.	Attempt any 5 out of 7. a) Define supervised learning. b) What is inferential statistics? c) Define regression d) What is data cleaning? e) Define bias in machine learning f) What is Euclidean distance? g) Define precision and recall	(5 Marks)	CO1
Q2.	Attempt any 2 out of 4. a) Describe the importance of data quality in Machine Learning. b) Describe the types of data (structured, semi-structured, unstructured). c) Explain confusion matrix and its components. d) Discuss the steps involved in data preprocessing/preparation.	(10 Marks)	CO2
Q.3	Attempt all questions. a) A dataset contains the following values: 12, 15, 20, 15, 18, 22, 15, 25, 30, 18 Calculate the mean, median and mode for the dataset. b) Discuss data discretization techniques.	(10 Marks)	CO3
OR			
Q.3	Attempt all questions (5 marks each) a) Explain Standardization and Normalization with examples. b) Explain Noisy data.	(10 Marks)	CO3
